

In the Claims

The invention claimed is:

1. (Currently Amended): A composition comprising $R_F(R_T)_nQ$, wherein:
the R_F group comprises at least four fluorine atoms;
the R_T group comprises at least one C-2 group having at least one pendant $-CF_3$ group;
n is at least 1; and
the Q group comprises ~~one or more atoms of the periodic table of elements a~~ halogen.
2. (Original): The composition of claim 1 wherein the R_F group comprises at least one $-CF_3$ group.
3. (Original): The composition of claim 1 wherein the R_F group comprises at least two $-CF_3$ groups.
4. (Original): The composition of claim 3 wherein the R_F group comprises $-CF(CF_3)_2$.
5. (Original): The composition of claim 1 wherein the R_F group comprises $-C_6F_{13}$.
6. (Original): The composition of claim 1 wherein the R_T group comprises $-CH_2-\underset{\substack{| \\ CF_3}}{CH}-$.
7. (Original): The composition of claim 1 wherein n is at least 2 and the composition comprises $R_F(\underset{\substack{| \\ CF_3}}{CH_2}-\underset{\substack{| \\ CF_3}}{CH}-CH_2-\underset{\substack{| \\ CF_3}}{CH})Q$.

8. (Original): The composition of claim 1 wherein n is at least 2 and the

composition comprises
$$\text{R}_\text{F}(\text{CH}_2-\underset{\text{CF}_3}{\overset{\text{CF}_3}{\text{CH}}}-\text{CH}-\text{CH}_2)\text{Q}$$

9. (Currently Amended): The composition of claim 1 wherein the Q group comprises ~~a halogen~~ at least one of F, Cl, Br, and I.

10. (Original): A composition comprising one or both of
$$\text{R}_\text{F}(\text{R}_1-\underset{\text{CF}_3}{\text{CH}})_n\text{Q}$$
 and
$$\text{Q}(\text{R}_1-\underset{\text{CF}_3}{\text{CH}})_n\text{R}_\text{F}$$
, wherein:

the R_F group comprises at least four fluorine atoms;

the R₁ group comprises at least one carbon atom;

n is at least 1; and

the Q group comprises one or more atoms of the periodic table of elements.

11. (Original): The composition of claim 10 wherein the R_F group comprises at least two -CF₃ groups.

12. (Original): The composition of claim 10 wherein the R₁ group consists of -CH₂-

13. (Original): The composition of claim 10 wherein n is equal to 1 and the

composition comprises
$$\text{R}_\text{F}(\text{R}_1-\underset{\text{CF}_3}{\text{CH}})\text{Q}$$

14. (Original): The composition of claim 10 wherein the Q group comprises at least one halogen.

15. (Original): A composition comprising:

$R_{Cl}(R_T)_nH$, wherein:

the R_{Cl} group comprises at least $-CCl_3$;

the R_T group comprises at least one C-2 group having at least one pendant $-CF_3$ group; and

n is at least 1.

16. (Original): The composition of claim 15 wherein n is at least 2 and the

composition comprises $R_{Cl}(\underset{\underset{CF_3}{|}}{CH_2}-CH-CH_2-\underset{\underset{CF_3}{|}}{CH})H$

17. (Original): The composition of claim 15 wherein n is at least 2 and the

composition comprises $R_{Cl}(CH_2-\underset{\underset{CF_3}{|}}{CH}-\overset{\overset{CF_3}{|}}{CH}-CH_2)H$

18. (Original): A telomerization process comprising exposing at least one CF_3 -comprising taxogen to a fluorine-comprising telogen to produce a telomer, wherein the fluorine-comprising telogen comprises at least four fluorine atoms.

19. (Original): The process of claim 18 wherein the CF_3 -comprising taxogen is trifluoropropene.

20. (Original): The process of claim 18 wherein the fluorine-comprising telogen is $(CF_3)_2CFI$.

21. (Original): The process of claim 18 wherein the exposing the CF_3 -comprising taxogen to the fluorine-comprising telogen is in the presence of an initiator.

22. (Original): The process of claim 21 wherein the initiator comprises a peroxide.

23. (Original): The process of claim 22 wherein the peroxide comprises di-tert-butyl peroxide.

24. (Original): The process of claim 22 wherein the exposing occurs within a reactor and the initiator and telogen are provided to the reactor, a mole ratio of the initiator to the telogen being between about 0.001 and about 0.05.
25. (Original): The process of claim 24 wherein the mole ratio of the initiator to the telogen is between about 0.01 and about 0.03.
26. (Original): The process of claim 19 wherein the exposing occurs within a reactor, a temperature within the reactor during the exposing being from about 130°C to about 150°C.
27. (Original): The process of claim 18 wherein:
the CF₃-comprising taxogen is trifluoropropene; and
the telomer comprises
$$\begin{array}{c} \text{R}_F(\text{CH}_2-\text{CH})_n\text{Q} \\ | \\ \text{CF}_3 \end{array}$$
, wherein:
the R_F group comprises at least four fluorine atoms;
n is at least 1; and
the Q group comprises one or more atoms of the periodic table of elements.
28. (Original): The process of claim 18 wherein:
the CF₃-comprising taxogen is trifluoropropene;
the fluorine-comprising telogen is (CF₃)₂CFI; and
a mole ratio of the taxogen to the telogen is from about 2:1 to about 4:1.